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THE PLOTTER

CLACKAMAS COUNTY AREA T/S
USERS GROUP
NEWS LETTER
****
VOLUME 9 ** NUMBER 2
******
FEBRUARY 1991

EDITED BY: DICK WAGNER
CHAIRMAN: JACK ARMSTRONG
V/CHAIRMAN: BILL DUNLOP
SECRETARY: DICK WAGNER
TREASURER: ROD GOWEN
PR OFFICER: BOB EVANS
LIBRARIANS: TERRY GRAHAM
BILL DUNLOP
ALICE DUNLOP

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MEETING

The FEBRWARY meeting will be:

on: FRI., FEB 8, 1991

meeting open at: 7:00 P.M.
in: COMMUNITY ROOM
FAR WEST FEDERAL S.L.
OREGON CITY SHOPPING CENTER

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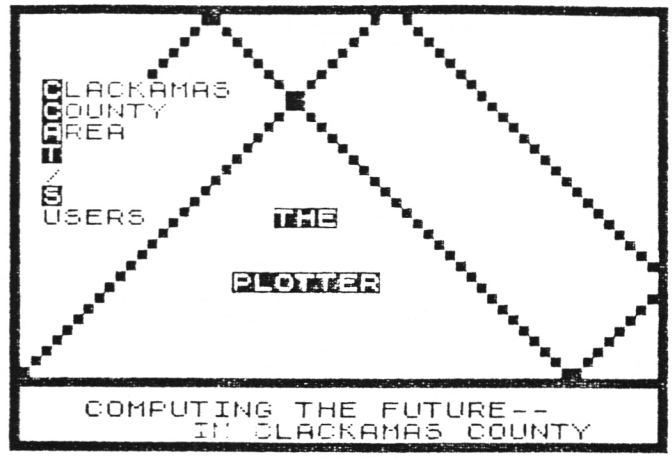

CHAIRMAN'S CORNER

(a.k.a. a turn in the barrel)

A New Year is now upon us and we are looking at changes brought about by so many members adding a PC to their life.

None of us want to completely change our orientation with the little door stop that Uncle Clive brought to us, but we also want to meet the new challenge. At the January meeting I asked for all members to write a paper describing what they want from our group, what their feelings are, what they would like to see the club do as a group. Any statement that will give me an insight to the individual's inner feelings and desires.

I ask again for input from each and every member. It's not necessary to make it a long treatise; a page, a paragraph, a sentence. Just so it reflects what you, as an individual, feel about our group, about yourself and what direction you would like to pursue. If you want to stay with the little 1000, or the 2068, or any of the variations of the Sinclair fami-

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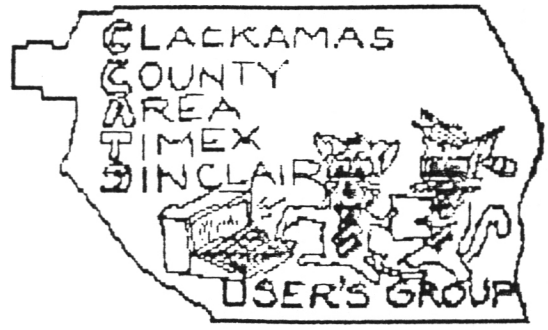

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ly...let me know. If you want more concentration on the PC, let us know and if there is any subject I have missed...let me know.

I want to know if members would like to change the format for the meeting or if we should concentrate on new demonstrations...whatever you feel or think is what I'd like to learn. Do we want to entertain the idea of changing our name? Could we combine our name with a reference to PC's? Can we attract new members by making it known we also include PC's? How

can we reach these potential members to get them to the meetings? What other ideas do you have?

We have done some nice things in the past and learned a lot from each other by comparing notes or talking to each other about problems we have come upon. I would like to think we are capable of teaching each other more and not only continue our club, but also expand it. I have met some fine people here and learned a lot from every one of them...I want to keep on doing just that!

You can send your "thoughts" to me at 1624 S.E. Insley St., Portland, OR, or bring them to the next meeting. Type them, "word process" them, write them in pen, pencil, crayon or felt-tip. Just...Do It! Let's see where we are going. See you at the meeting!

"Jack" Armstrong

DECEMBER MINUTES

The January 11 meeting at the Far West Bank, Oregon City, was called to order at 8:00 PM by Rod Gowen, acting as Chairman.

As was reported on the December meeting minutes, Jack Armstrong was nominated for the position of Chairman for 1991. There were no other nominations. Jack was duly elected by a unanimous vote. The Vice Chairman position had no other nominations than Bill Dunlop. Bill was unaminously elected by those members present. Rod turned the meeting over to the new Chairman.

Jack requested discussion on his suggestion that members produce hard copies of their ideas about where they want the organization to head. Possibilities of having a group more oriented to computers in general than specific models such as Sinclair and Timex was discussed; a name change; changing the format of our newsletter to better indicate these interests; trying different approaches to get the organization better known to various computer users, were mentioned. Be sure and send/bring ideas to the next meeting. One page or less was requested. Other user groups have included other computer types so we are not alone in this idea.

The Treasurer reported the books indicated that we had a balance of $240. This amount included several dues payments. As it requires about $450 to produce out monthly newsletter, The Plotter, the proposed change in the postage rate will hopefully not require a dues increase. Much depends upon how the paid membership is sustained.

The minutes as published in the newsletter were approved.

The Chairman requested that The Editor of the newsletter write up a cost analysis for the next meeting so that we can better make decission about the expenses for the year.

Note was made of the displays of computer supplies that Rod usually had at each meeting. It is hoped that Rod will be able to continue these displays.

Jack mentioned the problem of some of the members who have difficuly in locating a changed meeting place that occurs once in a while. Possibly making arrangements in advance to provide rides was suggested. Bob Evans was requested to check into the possibility of having a meeting at his mobile home park meeting hall should we need such a facility. It may be that

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extensive displays by members would be better attended at such a facility.

Bill Dunlop recommended that an inventory of equipment being used by each member would be a good indicator of interest. This will be taken under advisement at a later meeting.

Merlin Raymond suggested that we might be able to get some ideas of meeting activity from the Portland Computer Group.

The meeting was adjourned by the Chairman at 8:35 PM.

Dick Wagner, Secretary

BITS & BYTES

By: Rod Gowen

Got any news or information that may be of interest to other TS users? If so, why not share it? If you will send it to THE PLOTTER at the address on the back of this newsletter, we will get the word spread.

NEW OFFICERS-

have been installed! JACK ARMSTRONG is our new Chairman and BILL DUNLOP is our new Vice-Chairman. I hope that all of you will put your efforts into backing these fine fellows in their efforts to guide us during the coming year. Jack would like all of the members of CCAT/S to submit a short essay on just what you would like to see the group accomplish during 1991 and beyond. We need to know what you would like from the group in the way of leadership. What direction should we take? Should we try to balance our support between the TS line and the IBM clone line and actively recruit new members from the IBM clone users out there? What kind of continuing support are we able to give our TS users? If you have any ideas, PLEASE, write them down and bring or mail them to Jack or me and I will get them to him.

NEW NAME?-

A new name for CCAT/S? Maybe! We want your input at the February meeting on this subject. We had a bit of discussion at the January meeting on this subject. The consensus was to the effect that the name should better reflect what we were all about. I would be better to keep the same initials, or maybe add to them if need be. How about a couple of suggestions? Maybe CLACKAMAS COMPUTER AND TECHNICAL SOCIETY? Maybe CLACKAMAS COMPUTER AID TECHNICAL SOCIETY? Or, CLACKAMAS COMPUTER AIDED TRAINING SOCIETY? Any other ideas?

JACK DOHANY-

wants out of the retail end of the TS market so will be turning that part of his interests over t dealers such as RMG and ED GREY. He wants to devote 100% of his time to research and development of new products and modifications on existing ones. Keep watching for news of his progress and of any new items as they become available.

RMG ENTERPRISES-

says that the old favorite programs from Zebra: SIGN/BANNER/GREEETING CARD DESIGNER, will soon be available on Larken disk. It is hoped that the icons and fonts will also soon become available in the same format. There is also a good supply of Larken Disk systems in stock now so anyone ordering will not have to wait too long. RMG plans to continue to seek out new and exciting products for the TS line of computers just as long as there are users out there who want to buy such things.

DUES DUE!!!-

YES! Your 1991 membership dues are due! If you wish to continue to receive THE PLOTTER and have access to any other benefits that CCAT/S may be offering you, you must have your $15 payment in soon. It is due and payable by the February meeting or you will NOT receive a March PLOTTER! As an added incentive, RMG is offering to all paid in full members who have paid by the February meeting, a coupon worth 10% off any future purchase worth at least $30! Just think! If you were to order something worth $150 from RMG, your CCAT/S membership is FREE!

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ROBOTICS-

Are you interested in robotics? If so, there will be a show on this subject at WACKY WILLY'S, 417 SE 11TH, PORTLAND, OR. This is being put on by Portland Robotics. For more info call 243-1247.

That's it for now! Till next time--

THE GEROW MUFFIN MIRACLE

At the December meeting, held at the home of Jack and Maxine Armstrong, the Gerow's brought a basket full of muffins that were the hit of the evening. Jack asked Bob if his wife would share the recipe. They sent the recipe to Jack and at the January meeting, he was asked for a copy of it. Since this is the easiest way to share it with any cooks or would-be cooks in the club, here it is:

GEROW ORANGE MUFFINS

Mix and set aside 1 1/3 cups sugar and 3/4 cup orange juice.

Ingredients:

- 1/2 cup butter
- 3/4 cup sour cream
- 1 tsp soda
- 1 tsp grated orange rind
- 1/2 cup chopped nuts
- 1 cup sugar
- 2 2/4 cups flour
- 1/2 teaspoon salt
- 1/2 cup raisins

Cream butter and sugar, then add in sour cream alternately with salt, flour and soda sifted together. Add grated orange rind, raisins. and chopped nuts. Put in small muffin tins and bake 18 to 20 minutes at 350°. When done, and while still warm, dip in orange mix. Drain on wire rack. Keeps well in closed container.

ENJOY!!

MIKE'S NOTEBOOK

By: Michael J. Di Rienzo

(NOTE: REPRINTING OR REPRODUCING THIS COLUMN WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE AUTHOR IS HEREBY PROHIBITED. FOR PERMISSION, WRITE THE AUTHOR IN CARE OF THIS PUBLICATION.)

If you are used to SAVEing SCREEN$ files, you may have noticed that the file size is rather large especially if you LOAD or SAVE using cassette storage medium. The file is 6912 bytes long. Another problem to overcome is that if you want to store more than four or five SCREEN$'s in RAM memory, there is hardly any memory left for your programs. This months utility will COMPRESS a typical SCREEN$ file up to as much as 1/2 its usual size. In addition, a header is automatically included in the SAVED file which will resolve the compressed SCREEN$ back to its full size onto the screen by simply using RANDOMIZE USR (address). The following program will SAVE the compressed SCREEN$ CODE at address 40246 and you will be shown the file length if you wish to write it down. When you are ready to LOAD the compressed file into your own program, you can LOAD it to any legal address then "call" that address to get your expanded SCREEN$. The following program will POKE in the CODE then prompt you to INPUT the file name of the SCREEN$ that you want to compress. It will then LOAD it and temporarily store it. Next you'll be asked what name you want to give the compressed SCREEN$. The SCREEN$ will be instantly compressed and you will be notified of the start address and byte length of the file. Now, a prompt to press any key when you are ready to SAVE your file. Don't worry, your compressed file is already stored at address 40246. This utility can be easily modified by you to work with any disk system. I use this utility alot to animate as many as 15 compressed SCREEN$ by LOADing them consecutively in memory then calling them in sequence to simulate animation. The CODE is not relocatable and is 132 bytes long. Have fun!

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Continued from page 4

"CMPRES"

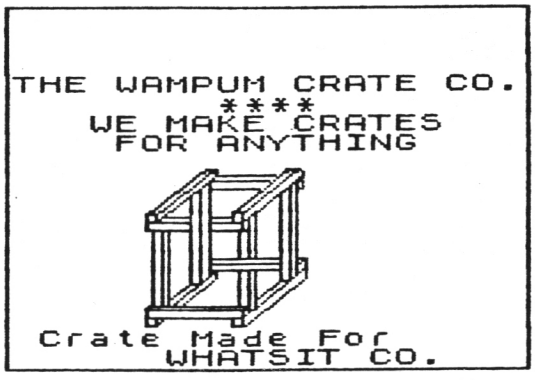
By Michael J. Di Rienzo

```
  10 CLEAR 36611: LET store=3672
0: LET recall=36732: LET compres
s=36612: GO SUB 100
  20 INPUT "What is the file nam
e to LOAD?  ";n$
  30 LOAD n$SCREEN$ : RANDOMIZE
USR store
  40 INPUT "What is the file nam
e to SAVE?  ";n$: RANDOMIZE USR
recall
  50 RANDOMIZE USR compress: LET
 L=USR 40192: LET L=L-40246
  60 PRINT INK 2; PAPER 5;AT 10,
0;"File:""";n$;"""CODE 40246,";L
; FLASH 1;AT 11,5;"Press any key
 to SAVE": PAUSE 0
  70 SAVE n$CODE 40246,L
  80 CLS : RANDOMIZE USR 40246:
PRINT INK 1; FLASH 1;AT 10,0;"To
 resolve the compressed file  ba
ck to the screen in the futureRA
NDOMIZE USR (Starting address wh
ere CODE is LOADed!)"
  90 STOP
 100 LET t=0
 110 FOR N=36612 TO 36743
 120 READ a: POKE n,a: LET t=t+a
 130 NEXT n: IF t<>12070 THEN PR
INT FLASH 1;"Data Error! Recheck
 DATA line.": STOP
 140 RETURN
 150 DATA 17,0,157,33,16,143,1,9
8,0,237,176,201,197,209,33,100,0
,25,235,33,0,64,14,1,126,167,40,
9,254,255,40,5,237,160,3,24,21,7
1,121,60,35,40,7,126,184,32,3,12
,24,243,120,18,19,121,18,19,14,1
,124,254,91,32,217,213,193,201,1
7,0,64,221,33,46,0,221,9,122,254
,91,200,221,126,0,167,40,10,254,
255,40,6,18,19,221,35,24,236,221
,70,1,18,19,16,252,221,35,221,35
,24,223
 160 DATA 17,0,157,33,0,64,1,0,2
4,237,176,201,17,0,64,33,0,157,1
,0,24,237,176,201
```

GRAPHICS

By Dick Wagner

This "advertising" box was made with the GYPSY graphics program (Dohany). THis program provides for many printing choices, left margin, density, horizontal width (11), verticle heighth (4), part of screen to be copied, for some. The graphic was first drawn on graph paper. The graphics mode addresses for each corner were determined, and intersection addresses were also noted on the drawing. The GYPSY program has a pixel address display in the menu in DRAW mode, making it easy to locate each predetermined address on the screen.



+ +

```
  10 REM DISSOLVING DISPLAY
  11 REM Programmer--Roy Wista
  20 DIM b(704)
  25 REM Fill b() with 1 to 704
  sequentially
  30 FOR f=1 TO 704: LET b(f)=f:
 NEXT f
  35 REM Swap array elements
chosen at random. The larger the
loop, the less sequential the
order of the array
  40 FOR f=1 TO 500
  50 LET r=RND*703+1: LET s=RND*
703+1
  60 LET c=b(r): LET d=b(s)
  70 LET b(s)=c: LET b(r)=d
  90 NEXT f: BEEP .05,1
  94 REM place something in
display file (a listing of
graphics of your choosing)
  95 LIST 91
  99 REM Fill attribute file
with WHITE ink $ WHITE paper
following random order created
in b(), "hiding" display
 100 FOR f=1 TO 704
 110 POKE 22528+b(f)-1,BIN 00111
111: NEXT f
 119 REM Do the same but with
Black ink on WHITE paper,
"revealing" display
 120 FOR f=1 TO 704
 130 POKE 22528+b(f)-1,BIN 00111
000: NEXT f
 140 GO TO 100
```

Who are we?
(a BJ diatribe)

I've been trying to identify the anatomy of "Sinclair Timex User" for the past 5 years or so. Perhaps you can help. We can easily type category such groups as Republicans, Democrats, Isolationists, Christians, Atheists, Merchants, Farmers. Of course Sinclair Timex users may be (secondarily) any of the above, but I have wondered if there is some common thread that can be identified as a tie that binds, one that sez "This is what a Sinclair Timex user is (or wuz). I will give you the results of my research, after communicating with most of the surviving elders of this almost extinct civilization. Anthrow-apologists are invited to add to this ancient historical thesis if they can.

My research is divided into two distinct anthrow-apologistical studies, "pre-historic" and "The Surviving Specie". Each book can be purchased for $59.99, and will be summarized briefly as follows.

Pre-Historic ($59.95): At one time after the Ice Age an opportunistic specie inhabited the isles of Britizane. It was a flourishing specie that grew in population until the local sustinance became too sparce to support the growth rate, upon which time the Council appointed a delegation to travel to distant places to find a new home that would offer more bounty.

The delegation first went to Alfroka but it was inhabited by low tribes of savages and the delegation was lucky to escape without being served as hor-dovers at one of the Chief's banquets.

Next the delegation went to a place called Yorup (rhymes with sirup) only to find the natives too poor and sufferring from the deprivations of a recent war with everybody else.

They then travelled on by reed-boats to a place called Awezala where they found few people but many huge hopping rodents who could bound a kilometer in one stride, shaking the earth as they landed.

On to a place called Azaa where they found hoards of friendly people but there were many dragons dressed in puffy coats buttoned high at the throat and who had enslaved the people.

Almost ready to give up, but not having the resources to go back home, the delegation landed at a place called Konecut. Here they were first terrified by hoards of big bugs having glassy eyes on four sides and who ran rapidly about in random directions. Later the delegation discovered that people were inside who directed the monster bugs, and when the people alighted they were friendly, and when people were not in the bugs the bugs just stood still, were benign and not dangerous.

The delegation then found that the people carried big bags of wampum which was scattered about freely and could be used for sustinance. So they traded their meager belongings called pence for the wampum in order to buy susinance for their emancipated bodies.

Soon the natives found that pence was delicious but the delegation's supply had been exhausted. Never-the-less, the desire for pence was strong. Also one's odor was strong after imbibing with pence, so strong and onerous that the populuous exorcised pence imbibbers to distant quarters.

Where-upon, colonys of spence imbibbers were formed from East to West and from South to North, each colony using the lands to grow the sparce seeds. They thrived until a new insect called "IBM", the abbreviation of which has been lost in translation, began to ravage their crops. The colonys began to diminish by starvation and isolation which brings us up to the next book.

THE SURVIVING SPECIE ($59.95): Tribal existance has become more and more difficult. Agricultural production has diminished to the degree that the children have had to migrate to other colonys having wider variety of diet. Such migration and mixture of genes have left little trace of the original culture except in the distant and isolated tribes which now consist of mostly the aged. Three of the tribes have remained more or less healthy for reasons which will be described.

The Octogan tribe in the far west has learned to supplement their diet with Red-wood nuts and Spruce berries while fighting the IBM insects with phychologial warfare (repeated showings of old wild west movies, ad nausium).

The "Wash" tribe, named for their utter devotion to cleanliness, have discovered a diet supplement of roasted cats, the cat population being prolific because of an abundance of lemmings along the shores of the Potential River.

The Northern "TONTO" tribe, named after the Lone Ranger's partner, has been less affected by the IBM insects due to a newly discovered phenomen. IBMs also feed upon mould, humidity, mosquitos , and cockroaches (AND- Yes they are canivorichious!), so the Northern Clime of Tonto is more favorable to pence and less to IBMs than that of their Southern cousin's territories. As a result the Tonto tribe has adopted quite a few escaping members of Southern tribes.

But the elders of all tribes are dying off now and as they do their lands are converted into giant wind-mill farms that pump deep oil wells driven through the earth into the Saudi Arabia sands. The great demand for oil is to supply a new Teen Age Fad for slicked back hair, shades of the Clark Gable look of the fourties, and the Lawrence Arabia Look of the thirties.

The proceeds of the two books will be used to breed a strain of sterile IBM insects whose decendants will be released in Southern lattitudes to save the colonys from distinction. A worthy cause to donate to if one has more money than discretion.

the plotter

pc page

by: Rod Gowen

This column is dedicated to all of our members or readers who are using IBM clones at home or at work for the first time or even for a while and would like to have some help or advice regarding the use of this new or or unfamiliar environment. If you would like to see us write about some specific problem or topic, please let us know.

H o w a b o u t s o m e B A S I C S o n D O S ?

Do you know that there are several ways to view your disk directory? I am sure that you are all familiar with the standard "DIR A:" command, but do you know what you will see if you tell your computer to "DIR/W A:"? Or, do you know what will happen if you do a directory on a disk that has over 25 entries? I'll bet you can't read that fast! Well, you can read as many entries as you want at your leisure if you use the command: "DIR/P A:". This will cause the directory command to "pause" after listing 22 entries. You can also do "selective" directories by using filenames or extensions. Wildcards are permitted. A wildcard is a "*" or "?". For instance, let's say you want to see if there are any ".DOC" files on a disk and do not want to scan several screens full of filenames. Just use the command: "DIR A:*.DOC and only files with the ".DOC" extension. You can also use the wildcard in the filename itself. If, for instance, you want to see only the files that start with the letter "P", you would use the command: "DIR A:P*.*" or "DIR A:P*.DOC" to see only .DOC files that start with the letter "P". Using the wildcard can give you almost any list of files that you may want. Using the "DIR/W" commmand will list the files in 4 columns across the screen and will therefore allow you to see at least 4 times as many filenames on the screen as with a normal DIR. This is by no means all that is possible with the DIR command, but it is a start. If you want to learn more on DIR, you can read up on it in your DOS manual.

We hope to see all of the PC users in the group that have an interest in the video tape instruction course that we have been viewing will be at the February meeting to see the next installment. We certainly hope that the presentation of this material is appreciated. It is a fairly expensive video course and we would hate to think that it is being wasted. If anyone would like to purchase a copy of the video course for your personal library, RMG sells it for $110 to club members. It retails for $139.95.

That's it for this month. See you all next time. . .

USING BASIC WITH MS-DOS

A lot of the "friendly" functions we have been used to in Sinclair BASIC are not available with MS-DOS as all of those single key functions have to be spelled out. Other than that, the functions in many cases are the same or similar in GWBASIC, BASICA, BASIC, etc. GWBASIC has a few functions that are accessed as F keys, such as SAVE, LOAD, etc.

Some functions are not required in GWBASIC as they are implied. For example, LET is not required but may be used.

Do you recall how we learned to access the computer's inards to have it print out the various codes from 0 to 255 so we could see what those codes displayed? Other systems that use codes from 0 to 255 usually had characters assigned to these numbers, not functions. This can be done with your MS-DOS system. GWBASIC has a set and MS-DOS has several, depending on the "country" that the keyboard is set for.

The crude way to see the MS-DOS set of characters is to hold down the Alt key while typing in the appropriate ASCII character number from the numeric keyboard (not the keys across the top). when the Alt key is released there is the character.

To use the following familiar program, first go to BASIC from MS-DOS by using the disk with GWBASIC (or similar program). The cursor is now the ordinary flashing dot. Key in the program as usual. Note that the number (N) is in parenthese.

```
10 FOR N=0 TO 255
20 PRINT CHAR$ (N);" ";
30 NEXT N
```

A space is not required after the line number, it gets in there automatically. Type in RUN or use the F key. There are all of those graphic symbols above 127.

No doubt your computer is set up for U.S. characters, or the appropriate Country Code. This is what is in ROM, put there by the current Country Code. Use your instruction book to change the Country Code and then key in the program again. This necessitates switching back to MS-DOS so KEY IN "SYSTEM". This kills the program and requires re-entering it later.

Should the reader change Country Codes, expect to have difficulty in finding the correct keys for ":" and "/" and some of the letters because the new Country Code has probably assigned new characters to certain key. This will require use of the ALT, CTR and Cap Shift keys to try to locate the correct combination with the proper key. I recall one combination for ":" was ALT and >.

Anyway, this is how we used to learn about our 1000s and 2068s. Give it a try and see how it goes. A later article will explain how to access these characters above 127 by program in MS-DOS and use them in batch files.

Dick F. Wagner

```
   3 REM by Dick Wagner
   5 REM use RUN 300 first to
set the graphic characters
  10 FOR M=0 TO 20
  20 FOR N=0 TO 31
  30 PRINT "A";: REM graphic "A"
  40 NEXT N
  50 NEXT M
  60 PLOT 0,8: DRAW 0,167: DRAW
255,0: DRAW 0,-167: DRAW -255,0
 200 PAUSE 20
 210 CLS
 220 FOR M=0 TO 20
 230 FOR N=0 TO 31
 240 PRINT "B";: REM graphic "B"
 250 NEXT N
 260 NEXT M
 265 PLOT 0,8: DRAW 0,167: DRAW
255,0: DRAW 0,-167: DRAW -255,0
 270 PAUSE 20: CLS : GO TO 10
 280 STOP
 300 FOR L=65368 TO 65368+15
 310 READ a
 320 POKE L,a
 330 NEXT L
 350 DATA 128,192,224,240,248,25
2,254,255
 360 DATA 1,3,7,15,31,63,127,255
 370 GO TO 10
 380 STOP
 400 REM if you save this
program on disk, then consider
this enhancement
 410 REM save each of these
SCREEN$ on disk. I used "1" for
the name of the first and "2"
for the second.
 420 CLS
 430 LOAD  "1"SCREEN$ : REM use
  your DOS file name system.
 440 PAUSE 20
 450 LOAD  "2"SCREEN$
 460 GO TO 430
 470 REM save lines 400-470 as a
 separate program. Save it at
 line 400 for automatic run.
 480 REM this last is not for
 touchy stomacks!
```

FROM THE EDITOR'S DESK

Survival seems to be the name of the game. Slowly we have been loosing a member or so each year. Replacements seldome show up. As will be noted from reading other articles in this issue, we are looking at a non-exclusive computer group as the way we will need to go. If we do this, we will be able to offer an organization more locally situated for meetings than the Portland group who meet down town. For younger computerists this is not a problem but for us older users down town Portland at night does not offer much interest.

Having a wide interest group will give us some problems. It will require several members who work with one particular model of computer, such as Atari, or Commodore for example, to make a group interested in such models. One alone will not do it. Also of interest to me at this time of the month is including subject matter of interest in The Plotter. When we organized a study group for MS DOS there was assuarance from those members that there would be material for a special page. So far Rod Gowen and I have filled these two pages. So I don't have too much enthusiasm for this direction.

Our meetings have lots of input covering suggestions and problems with MS DOS operation, but just try and get someone to put it into an article of interest to our readers! This has been true of using our trusty 2068s, QLs, and in early years, the 1000s and 1500s. In fact, looking into some of our early issues, there was considerable input from members as each discovery of something new was something to broadcast.

Readers who have AERCO FD68 operating systems or who want to go this direction have an opportunity to obtain an up-graded system of 2 drives, IF and LKDOS cartidge (switchable), improved power supply, plus software. The drives are AERCO in cases. This equipment is owned by my friend Dottie Bundy in Ventura, CA. The address is 189 Stadium Drive, Ventura, CA 93003 and phone number is (805)642-1657. Write to her for details as she has more items than this to offer.

Readers who keep a data base of cooking recipies will be interested in Jack Armstrong's item in this

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